

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 April 2001 (26.04.2001)

PCT

(10) International Publication Number
WO 01/29058 A1

(51) International Patent Classification⁷: **C07H 21/04**,
C07K 14/435, 16/18, C12N 15/63, 15/67

Way, Baltimore, MD 21209 (US). **TABARA, Hiroaki**; 145
Orient Street, Worcester, MA 01545 (US). **GRISHOK,**
Alla; 18K Shrewsbury Green Drive, Shrewsbury, MA
01545 (US).

(21) International Application Number: PCT/US00/28470

(22) International Filing Date: 13 October 2000 (13.10.2000)

(74) Agent: **CREASON, Gary, L.**; Fish & Richardson P.C.,
225 Franklin Street, Boston, MA 02110-2804 (US).

(25) Filing Language: English

(81) Designated States (*national*): AU, CA, JP, KR.

(26) Publication Language: English

(84) Designated States (*regional*): European patent (AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE).

(30) Priority Data:
60/159,776 15 October 1999 (15.10.1999) US
60/193,218 30 March 2000 (30.03.2000) US

Published:

- *With international search report.*
- *Before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments.*

(71) Applicants: **UNIVERSITY OF MASSACHUSETTS**
[US/US]; One Beacon Street, 26th Floor, Boston, MA
02108 (US). **CARNEGIE INSTITUTION OF WASH-**
INGTON [US/US]; 115 West University Parkway,
Baltimore, MD 21210 (US).

(72) Inventors: **MELLO, Craig, C.**; 19 Ryan Road, Shrews-
bury, MA 01545 (US). **FIRE, Andrew**; 2320 Bright Leaf

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: RNA INTERFERENCE PATHWAY GENES AS TOOLS FOR TARGETED GENETIC INTERFERENCE

(57) Abstract: Genes involved in double-stranded RNA interference (RNAi pathway genes) are identified and used to investigate the RNAi pathway. The genes and their products are also useful for modulating RNAi pathway activity.

WO 01/29058 A1

